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|  | **Eligible Content** | **6 BA #1** | | | **6 BA #2** |
| **M6.A.1.2.1** | Compare and/or order whole numbers, mixed numbers, fractions and/or decimals (do not mix fractions and decimals – decimals through thousandths). | 11. List the following fractions from least to greatest.    ⅓, ¼ , ⅝, ½  A. ⅝ , ½ , ⅓ , ¼  B. ½ , ⅓ , ¼ , ⅝  C. ¼ , ⅓ , ½ , ⅝  D. ¼ , ½ , ⅓ , ⅝  59% | | | 11. List the following fractions from greatest to least.    ⅓, ¼ , ⅝, ½  A. ⅝ , ½ , ⅓ , ¼ (46%)  B. ½ , ⅓ , ¼ , ⅝ (29%)  C. ¼ , ⅓ , ½ , ⅝ (20%)  D. ¼ , ½ , ⅓ , ⅝ (5%)  46% |
| **M6.A.1.4.1** | Model percents (through 100%) using drawings, graphs and/or sets (e.g., circle graph, base ten blocks, etc) | 1. About what percent of the square is shaded?   1. 10% 2. 25 % 3. 50% 4. 75%   87% | | | 21. What percent of the rectangle is shaded?   |  |  | | --- | --- | | A.   9% | C. 50% | | B.37.5% | D. 70% |     http://www.mrmaisonet.com/QUIZZES/shaded%20rectangle.jpg 63% |
| **M6.A.2.1.1** | Complete equations by using the following properties: associative, commutative, distributive and identity. | 6. Evaluate the expression.  3 • (6 – 4) – 4 + 2   1. 0 2. 2 3. 4 4. 12   53% | | | 31. Which equation shows the commutative property of addition?  A. 6 + 3 = 9  B. 6 + 3 = 6 + 3  C. 6 + 3 = 3 + 6  D. 6 + 3 = 5 + 4  38% |
| **M6.A.3.2.1** | Solve problems involving operations (+, -, x, ÷) with whole numbers, decimals (through thousandths) and fractions (avoid complicated LCDs) - straight computation or word problems. | 16. For an experiment in Mr. Ziegler’s class, John began with 2.3 pounds of sand. If he used 1.15 pounds of sand in the experiment, how much sand was left?   1. 1.25 pounds 2. 1.15 pounds 3. 1.12 ponds 4. 2 pounds   80% | | | 23. Students are running in a relay race. Each team will run a total of 2 miles. Each member of the team will run of a mile. How many students will a team need to complete the race?   1. 5 students 2. 10 students 3. 50 students   57% |
| **M6.B.2.1.2** | Choose the more precise measurement of a given object (e.g., smaller measurements are more precise). | 10. If you would like to measure the width of you textbook, which unit would be the best to use?  A. Miles  B. Yards  C. Feet  D. Inches  92% | | | 36. What would be the best method to determine the mass of a penny?  A. Weigh the penny on a scale to the nearest gram.  B. Weigh the penny on a scale to the nearest kilogram.  C. Measure the diameter of the penny with a ruler.  D. Measure the radius of the penny with a ruler.  62% |
| **M6.B.2.1.3** | Measure angles using a protractor up to 180° - protractor must be drawn - one side of the angle to be measured should line up with the straight edge of the protractor. | 32. protractor_40  T  U  V  What is the measure of ∠VUT?    A. 140°  B. 40°  C. 135°  D. 35°  30% | | | 10. What is the measure of ∠BAC?  protractor  A. 135°  B. 100°  C. 150°  D. 45°  25% |
| **M6.B.2.2.1** | Find the perimeter of any polygon (may include regular polygons where only the measure of one side is given – same units throughout). | 91% | | | 33. What is the perimeter of the irregular table top?  http://www.shmoop.com/images/prealgebra/unit4/pa.4.268.png    A. 32 cm  B. 34 cm  C. 54 cm  D. 45 cm  46% |
| **M6.C.1.2.1** | Identify, describe and/or label parallel, perpendicular or intersecting lines. | 22. Which describes the lines at the right?   1. Parallel 2. Perpendicular 3. Intersecting 4. Skew   90% | | | 34. Line *p* is parallel to line *k* in the figure shown below.  Which statement about the lines in the figure is **true**?  A. Line *k* is parallel to line *m*.  B. Line *m* is parallel to line *j*.  C. Line *p* is perpendicular to line *k*.  D. Line *j* is perpendicular to line *p*.  70% |
| **M6.D.1.1.1** | Create, extend or find a missing element in a pattern displayed in a table, chart or graph (pattern must show at least 3 repetitions - may use up to 2 operations with whole numbers). | 35. Which is the missing number in the sequence?    32, 44, 56, \_\_\_, 80, 92  A. 64 C. 72  B. 68 D. 74  93% | 19.  If the eye patterns of the space monsters above continue, how many space monsters will it take to have a total of 54 eyes?  A. 4 C. 9  B. 5 D. 25  47% | | |
| **M6.D.1.2.1** | Determine a rule based on a pattern or illustrate a pattern based on a given rule (displayed on a table, chart or graph; pattern must show at least 3 repetitions). | 4. Find the pattern for the following sequence of numbers:  20, 12, 18, 10, 16, 8  A. Subtract 6, then add 8 and repeat the steps  B. Subtract 8, then add 6 and repeat the steps  C Divide by 4, then add 8 and repeat the steps  D. Divide by 8, then add 6 and repeat the steps  90%  28. Identify the pattern in the arithmetic sequence.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Position | 1 | 2 | 3 | 4 | 5 | | Value of Term | 5 | 14 | 23 | 32 | 41 |  * 1. Multiply by 9   2. Add 9   C. Subtract 9  D. Divide by 9  77% | | 28. The noise level at a music concert must be no more than 80 decibels (dB) at the edge of the property on which the concert is held.    Melissa uses a decibel meter to test whether the noise level at the edge of the property is no more than 80 dB.   * Melissa is standing 10 feet away from the speakers and the noise level is 100 dB. * The edge of the property is 70 feet away from the speakers. * Every time the distance between the speakers and Melissa doubles, the noise level decreases by about 6 dB   **What will be the approximate noise level (dB) at the edge of the concert property?**  A. Between 95-105 dB  B. Between 85-95 dB  C. Between 75-85 dB  D. Between 65-75 dB  21% | |
| **M6.E.1.1.1** | Analyze data and/or answer questions pertaining to data represented in frequency tables, circle graphs, double bar graphs, double line graphs or line plots (for circle graphs, no computation with percents). | 14. Use the graph to find the total number of tickets sold during the week.   1. 800 2. 900 3. 1000 4. 1100   93% | 22. Fuel efficiency can be measured by how far, in miles, a car can travel using a gallon of gas. The histogram below shows the fuel efficiency levels, in miles per gallon, of 110 cars. What is the closest percentage of cars with an efficiency level greater than or equal to 20 miles per gallon?    A. 25% C. 40%  B. 36% D. 44%  18% | | |